

***AMENDMENTS TO THE SPECIFICATION***

Please insert the following replacement paragraph for that shown at page 24, lines 11-32:

D. RT-PCR analysis of expression of ER $\alpha$  and ER $\beta$  in cell lines.

RNA was isolated from a number of human and animal cell lines using RNazol B (Cinna/Biotech). CDNA was made using 2.5 microgram of total RNA using the Superscript II kit (BRL) following the ~~manufacturers~~ manufacturer's instructions. A portion of the cDNA was used for specific PCR amplifications of fragments corresponding either to mRNA encoding the ER or to the novel estrogen receptor. (It should be emphasized that the primers used are based on human and rat sequences, whereas some of the cell lines were not rat or human, see legend of Figure 4). Primers used were for ER $\alpha$ : sense 5'-GATGGGCTTACTGACCAACC-3' (SEQ ID NO:29) and antisense 5'-AGATGCTCCATGCCTTTG-3' (SEQ ID NO:30) generating a 548 base pair fragment corresponding to part of the LBD. For ER $\beta$ : sense 5'-TTCACCGAGGCTCCATGATG-3' (SEQ ID NO:31) and antisense 5'-CAGATGTTCCATGCCCTTGTT-3' (SEQ ID NO:32) generating a 565 base pair fragment corresponding to part of the LBD. The PCR samples were analysed on agarose which were blotted onto ~~Nylon~~ Nylon® membranes. These blots were hybridised with <sup>32</sup>P-labeled PCR fragments generated with the above-mentioned primers on ER $\alpha$  and ER $\beta$  plasmid DNA using standard experimental procedures (Sambrook et al; al., 1989).


***SUBSTITUTE SEQUENCE LISTING***

Please substitute the enclosed Sequence Listing for that previously for this application. The substitute Sequence Listing includes the additional oligonucleotides found on page 24 of the application. It is hereby certified that this substitute Sequence Listing includes no new matter.

**REMARKS**

Pursuant to a telephone call from the examiner on 13 August 2003, the specification has been amended to add SEQ ID NOS to the paragraph spanning lines 11-32 on page 24. Some minor typographical errors noted in that passage have also been corrected.

A Substitute Sequence Listing is also provided herewith to include the additional sequences inserted in the paragraph. The Substitute Sequence Listing also appears on the enclosed computer diskette, and is accompanied by a Statement Pursuant to 37 C.F.R. § 821(f).

RESPECTFULLY SUBMITTED,					
NAME AND REG. NUMBER	Jeffrey L. Ihnen, Registration No. 28,957				
SIGNATURE				DATE	15 AUGUST 2003
Address	Rothwell, Figg, Ernst & Manbeck 1425 K Street, N.W., Suite 800				
City	Washington	State	D.C.	Zip Code	20005
Country	U.S.A.	Telephone	202-783-6040	Fax	202-783-6031